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(21)Application number : 08-097777 (71)Applicant : SUMITOMO SPECIAL METALS CO LTD
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(54) FERRITE MAGNET AND MANUFACTURING METHOD THEREOF

(57)Abstract:

PROBLEM TO BE SOLVED: To improve the magnetic characteristics by specifying the value n which limits the compsn. range of a ferrite magnet having a basic compsn. of $\text{SrO} \cdot 2(\text{FeO}) \cdot n(\text{Fe}_2\text{O}_3)$ and adding specified additive element after/before calcining to control the pulverized grain size.

SOLUTION: A ferrite magnet has a compsn. of $\text{SrO} \cdot 2(\text{FeO}) \cdot n(\text{Fe}_2\text{O}_3)$ wherein n to limit the compsn. range meets 7.2–7.7, the mean crystal grain size of a sintered block is $2\mu\text{m}$ or less, $(\text{BH})_{\text{max}}$ is 5MGoe or more. C is added 0.3–5.0wt.% to a material powder composed of SrCO_3 and Fe_2O_3 mixed at a mol ratio of 1 to 8, the material is calcined, CaO 0.3–1.5wt.%, SiO_2 0.1–0.6wt.%, and C 0.1–0.5wt.% are added, it is pulverized to a mean grain size of $0.06\mu\text{m}$ or less, and the obtained powder is formed in a magnetic field and sintered in a nonoxidative atmosphere to produce a ferrite magnet. Thus, a W type ferrite is easily obtained at low cost.

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